SEQUENCE LISTING

```
AUS 2 6 2002 EVENTS TRADE OF THE LEGISLE OF THE LEG
```

```
Charles, Ian G.
      Xu, Weiming
      Liu, Lizhi
<120> Unducible Screen for Drug Discovery
<130> HO-P02380US0
<140> US 10/049,428
<141> 2000-07-28
<150> GB 9918077
<151> 1999-07-30
<150> GB 0016171.1
<151> 2000-06-30
<160> 7
<170> PatentIn version 3.1
<210> 1
<211> 11
<212> PRT
<213> Artificial Sequence
<220>
<223> C-terminal residues of human iNOS
<220>
<221> MOD RES
<222> (4)..(4)
<223> Orn
<220>
<221> MOD_RES
<222> (3)..(3)
<223> Nle
<220>
<221> MISC FEATURE
<222> (1)..(11)
<223> X = Modified Residues
<400> 1
Cys Arg Xaa Xaa Ser Leu Glu Met Ser Ala Leu
<210> 2
<211> 19
<212> DNA
<213> BACTERIA
<400> 2
```

<210> 3 <211> 3678 <212> DNA <213> Human

<400> 3 agagaactca gcctcattcc tgctttaaaa tctctcggcc acctttgatg aggggactgg 60 gcagttctag acagtcccga agttctcaag gcacaggtct cttcctggtt tgactgtcct 120 taccccgggg aggcagtgca gccagctgca agccccacag tgaagaacat ctgagctcaa 180 atccagataa gtgacataag tgacctgctt tgtaaagcca tagagatggc ctgtccttgg 240 aaatttctgt tcaagaccaa attccaccag tatgcaatga atggggaaaa agacatcaac 300 360 tatcacaacc tcagcaagca gcagaatgag tccccgcagc ccctcgtgga gacgggaaag 420 aagtctccag aatctctggt caagctggat gcaaccccat tgtcctcccc acggcatgtg 480 aggatcaaaa actggggcag cgggatgact ttccaagaca cacttcacca taaggccaaa 540 gggattttaa cttgcaggtc caaatcttgc ctggggtcca ttatgactcc caaaagtttg 600 accagaggac ccagggacaa gcctacccct ccagatgagc ttctacctca agctatcgaa 660 tttgtcaacc aatattacgg ctccttcaaa gaggcaaaaa tagaggaaca tctggccagg 720 780 gtggaagcgg taacaaagga gatagaaaca acaggaacct accaactgac gggagatgag ctcatcttcg ccaccaagca ggcctggcgc aatgccccac gctgcattgg gaggatccag 840 tggtccaacc tgcaggtctt cgatgcccgc agctgttcca ctgcccggga aatgtttgaa 900 960 cacatetgea gacaegtgeg ttactecace aacaatggea acateaggte ggecateace 1020 gtgttccccc agcggagtga tggcaagcac gacttccggg tgtggaatgc tcagctcatc cgctatgctg gctaccagat gccagatggc agcatcagag gggaccctgc caacgtggaa 1080 ttcactcage tgtgcatcga cetgggetgg aageccaagt aeggeegett egatgtggte 1140 cccctggtcc tgcaggccaa tggccgtgac cctgagctct tcgaaatccc acctgacctt 1200 gtgcttgagg tggccatgga acatcccaaa tacgagtggt ttcgggaact ggagctaaag 1260 1320 tggtacgccc tgcctgcagt ggccaacatg ctgcttgagg tgggcggcct ggagttccca gggtgcccct tcaatggctg gtacatgggc acagagatcg gagtccggga cttctgtgac 1380 gtccagcgct acaacatcct ggaggaagtg ggcaggagaa tgggcctgga aacgcacaag 1440 ctggcctcgc tctggaaaga ccaggctgtc gttgagatca acattgctgt gctccatagt 1500 ttccagaagc agaatgtgac catcatggac caccactcgg ctgcagaatc cttcatgaag 1560

25195948 - 2 -

tacatgcaga atgaataccg gtcccgtggg ggctgcccgg cagactggat ttggctggtc 1620 cctcccatgt ctgggagcat cacccccgtg tttcaccagg agatgctgaa ctacgtcctg 1680 teceetttet aetaetatea ggtagaggee tggaaaaeee atgtetggea ggaegagaag 1740 cggagaccca agagaagaga gattccattg aaagtcttgg tcaaagctgt gctctttgcc 1800 tgtatgctga tgcgcaagac aatggcgtcc cgagtcagag tcaccatcct ctttgcgaca 1860 gagacaggaa aatcagaggc gctggcctgg gacctggggg ccttattcag ctgtgccttc 1920 aaccccaagg ttgtctgcat ggataagtac aggctgagct gcctggagga ggaacggctg 1980 ctgttggtgg tgaccagtac gtttggcaat ggagactgcc ctggcaatgg agagaaactg 2040 aagaaatcgc tetteatget gaaagagete aacaacaaat teaggtacge tgtgtttgge 2100 ctcggctcca gcatgtaccc tcggttctgc gcctttgctc atgacattga tcagaagctg 2160 teccaectgg gggeetetea geteaeceeg atgggagaag gggatgaget eagtgggeag 2220 gaggacgcct tccgcagctg ggccgtgcaa accttcaagg cagcctgtga gacgtttgat 2280 gtccgaggca aacagcacat tcagatcccc aagctctaca cctccaatgt gacctgggac 2340 ccgcaccact acaggetcgt gcaggactca cagcetttgg acctcagcaa agccetcage 2400 agcatgcatg ccaagaacgt gttcaccatg aggctcaaat ctcggcagaa tctacaaagt 2460 cegacateca geegtgeeac cateetggtg gaacteteet gtgaggatgg ceaaggeetg 2520 aactacctgc cgggggagca ccttggggtt tgcccaggca accagccggc cctggtccaa 2580 ggtatcctgg agcgagtggt ggatggccc acaccccacc agacagtgcg cctggaggcc 2640 ctggatgaga gtggcagcta ctgggtcagt gacaagaggc tgcccccctg ctcactcagc 2700 caggeeetea ectaetteet ggacateace acacececaa eccagetget getecaaaag 2760 ctggcccagg tggccacaga agagcctgag agacagaggc tggaggccct gtgccagccc 2820 tcagagtaca gcaagtggaa gttcaccaac agccccacat tcctggaggt gctagaggag 2880 ttcccgtccc tgcgggtgtc tgctggcttc ctgctttccc agctccccat tctgaagccc 2940 aggttctact ccatcagctc ctcccgggat cacacgccca cagagatcca cctgactgtg 3000 gccgtggtca cctaccacac ccgagatggc cagggtcccc tgcaccacgg cgtctgcagc 3060 acatggetea acageetgaa geeccaagae ecagtgeeet getttgtgeg gaatgeeage 3120 ggcttccacc tccccgagga tccctcccat ccttgcatcc tcatcgggcc tggcacaggc 3180 ategegeeet teegeagttt etggeageaa eggeteeatg aeteeeagea eaagggagtg 3240 cggggaggcc gcatgacctt ggtgtttggg tgccgccgcc cagatgagga ccacatctac 3300 caggaggaga tgctggagat ggcccagaag ggggtgctgc atgcggtgca cacagcctat 3360 tecegeetge etggeaagee caaggtetat gtteaggaea teetgeggea geagetggee 3420

25195948 - 3 -

agcgaggtgc tccgtgtgct ccacaaggag ccaggccacc tctatgtttg cggggatgtg 3480 cgcatggccc gggacgtggc ccacaccctg aagcagctgg tggctgccaa gctgaaattg 3540 aatgaggagc aggtcgagga ctatttcttt cagctcaaga gccagaagcg ctatcacgaa 3600 gatatctttg gtgctgtatt tccttacgag gcgaagaagg acagggtggc ggtgcagccc 3660 agcagcctgg agatgtca 3638

<210> 4

<211> 3805

<212> DNA

<213> Human

<400> 4

atggaggate acatgttegg tgtteageaa atecageeea atgteattte tgttegtete 60 ttcaagcgca aagttggggg cctgggattt ctggtgaagg agcgggtcag taagccgccc 120 gtgatcatct ctgacctgat tcgtgggggc gccgcagagc agagtggcct catccaggcc 180 ggagacatca ttcttgcggt caacggccgg cccttggtgg acctgagcta tgacagcgcc 240 ctggaggtac tcagaggcat tgcctctgag acccacgtgg tcctcattct gaggggccct 300 gaaggtttca ccacgcacct ggagaccacc tttacaggtg atgggacccc caagaccatc 360 egggtgacae ageceetggg tecececaee aaageegtgg atetgteeca eeageeaeeg 420 gccggcaaag aacagcccct ggcagtggat ggggcctcgg gtcccgggaa tgggcctcag 480 catgcctacg atgatggca ggaggctggc tcactcccc atgccaacgg cctggcccc 540 aggcccccag gccaggaccc cgcgaagaaa gcaaccagag tcagcctcca aggcagaggg 600 gagaacaatg aactgeteaa ggagatagag eetgtgetga geetteteae eagtgggage 660 agaggggtca agggagggc acctgccaag gcagagatga aagatatggg aatccaggtg 720 gacagagatt tggacggcaa gtcacacaaa cctctgcccc tcggcgtgga gaacgaccga 780 gtcttcaatg acctatgggg gaagggcaat gtgcctgtcg tcctcaacaa cccatattca 840 gagaaggagc agcccccac ctcaggaaaa cagtccccca caaagaatgg cagccctcc 900 aagtgtccac gcttcctcaa ggtcaagaac tgggagactg aggtggttct cactgacacc 960 ctccacctta agagcacatt ggaaacggga tgcactgagt acatctgcat gggctccatc 1020 atgcatectt etcageatge aaggaggeet gaagaegtee geacaaaagg acagetette 1080 cctctcgcca aagagtttat tgatcaatac tattcatcaa ttaaaagatt tggctccaaa 1140 gcccacatgg aaaggctgga agaggtgaac aaagagatcg acaccactag cacttaccag 1200 ctcaaggaca cagageteat ctatggggee aageaegeet ggeggaatge etegegetgt 1260 gtgggcagga tccagtggtc caagctgcag gtattcgatg cccgtgactg caccacggcc 1320

25195948 - 4 -

cacgggatgt tcaactacat ctgtaaccat gtcaagtatg ccaccaacaa agggaacctc 1380 aggtetgeca teaceatatt eececagagg acagaeggea ageaegaett eegagtetgg 1440 aactcccagc tcatccgcta cgctggctac aagcagcctg acggctccac cctgggggac 1500 ccagccaatg tgcagttcac agagatatgc atacagcagg gctggaaacc gcctagaggc 1560 egettegatg teetgeeget cetgetteag gecaaeggea atgaceetga getetteeag 1620 attectecag agetggtgtt ggaagtteee ateaggeace eeaagtttga gtggtteaag 1680 gacctggggc tgaagtggta cggcctcccc gccgtgtcca acatgctcct agagattggc 1740 ggcctggagt tcagcgcctg tcccttcagt ggctggtaca tgggcacaga gattggtgtc 1800 cgcgactact gtgacaactc ccgctacaat atcctggagg aagtggccaa gaagatgaac 1860 ttagacatga ggaagacgtc ctccctgtgg aaggaccagg cgctggtgga gatcaatatc 1920 geggttetet atagetteea gagtgacaaa gtgaceattg ttgaceatea eteegeeace 1980 gagteettea ttaageacat ggagaatgag taeegetgee gggggggetg eeetgeegae 2040 tgggtgtgga tcgtgccccc catgtccgga agcatcaccc ctgtgttcca ccaggagatg 2100 ctcaactacc ggctcacccc ctccttcgaa taccagcctg atccctggaa cacgcatgtc 2160 tggaaaggca ccaacgggac ccccacaaag cggcgagcca tcggcttcaa gaagctagca 2220 gaagetgtea agttetegge caagetgatg gggeaggeta tggeeaagag ggtgaaageg 2280 accatectet atgecacaga gacaggeaaa tegeaagett atgecaagae ettgtgtgag 2340 atcttcaaac acgcctttga tgccaaggtg atgtccatgg aagaatatga cattgtgcac 2400 ctggaacatg aaactetggt cettgtggte accageacet ttggcaatgg agateceeet 2460 gagaatgggg agaaattcgg ctgtgctttg atggaaatga ggcaccccaa ctctgtgcag 2520 gaagaaagga agagctacaa ggtccgattc aacagcgtct cctcctactc tgactcccaa 2580 aaatcatcag gcgatgggcc cgacctcaga gacaactttg agagtgctgg acccctggcc 2640 aatgtgaggt teteagtttt tggeetegge teaegageat acceteaett ttgegeette 2700 ggacacgctg tggacaccct cctggaagaa ctgggagggg agaggatcct gaagatgagg 2760 gaaggggatg agctctgtgg gcaggaagag gctttcagga cctgggccaa gaaggtcttc 2820 aaggcagcct gtgatgtctt ctgtgtggga gatgatgtca acattgaaaa ggccaacaat 2880 teceteatea geaatgateg eagetggaag agaaacaagt teegeeteae etttgtggee 2940 gaageteeag aacteacaea aggtetatee aatgteeaca aaaagegagt eteagetgee 3000 eggeteetta geegteaaaa eeteeagage eetaaateea gteggteaae tatettegtg 3060 cgtctccaca ccaacgggag ccaggagctg cagtaccagc ctggggacca cctgggtgtc 3120

25195948 - 5 -

ttccctggca accacgagga cctcgtgaat gccctgatcg agcggctgga ggacgcqccq 3180 cctgtcaacc agatggtgaa agtggaactg ctggaggagc ggaacacggc tttaggtgtc 3240 atcagtaact ggacagacga gctccgcctc ccgccctgca ccatcttcca ggccttcaag 3300 tactacctgg acatcaccac gccaccaacg cctctgcagc tgcagcagtt tgcctcccta 3360 gctaccagcg agaaggagaa gcagcgtctg ctggtcctca gcaagggttt gcaggagtac 3420 gaggaatgga aatggggcaa gaaccccacc atcgtggagg tgctggagga gttcccatct 3480 atccagatge eggecaceet geteetgace eagetgteee tgetgeagee eegetactat 3540 tccatcagct cctccccaga catgtaccct gatgaagtgc acctcactgt ggccatcgtt 3600 tectacegea etegagatgg agaaggacea atteaceaeg gegtatgete etectggete 3660 aaccggatac aggctgacga actggtcccc tgtttcgtga gaggagcacc cagcttccac 3720 ctgccccgga acccccaagt cccctgcatc ctcgttggac caggcaccgg cattgcccct 3780 ttccgaagct tctggcaaca gcggc 3805

<210> 5

<211> 3612

<212> DNA

<213> Human

<400> 5

atgggcaact tgaagagcgt ggcccaggag cctgggccac cctgcggcct ggggctgggg 60 etgggeettg ggetgtgegg caageaggge ceagecacee eggeecetga geeeageegg 120 gececageat ecetaetece accagegeea gaacaeagee eccegagete ecegetaace 180 cagcccccag aggggcccaa gttccctcgt gtgaagaact gggaggtggg gagcatcacc 240 tatgacacco tcagogocca ggogoagoag gatgggooot gcaccocaag acgotgootg 300 ggctccctgg tatttccacg gaaactacag ggccggccct ccccggccc cccggccct 360 gagcagctgc tgagtcaggc ccgggacttc atcaaccagt actacagctc cattaaqagq 420 ageggetece aggeeeacga acageggett caagaggtgg aageegaggt ggeageeaca 480 ggcacctacc agcttaggga gagcgagctg gtgttcgggg ctaagcaggc ctggcgcaac 540 gctccccgct gcgtgggccg gatccagtgg gggaagctgc aggtgttcga tgcccgggac 600 tgcaggtctg cacaggaaat gttcacctac atctgcaacc acatcaagta tgccaccaac 660 eggggcaace ttegetegge cateacagtg tteeegeage getgeeetgg eegaggagae 720 ttccgaatct ggaacagcca gctggtgcgc tacgcgggct accggcagca ggacggctct 780 gtgcgggggg acccagccaa cgtggagatc accgagctct gcattcagca cggctggacc 840 ccaggaaacg gtcgcttcga cgtgctgccc ctgctgctgc aggccccaga tgagccccca 900

25195948 - 6 -

gaactcttcc	ttctgcccc	cgagctggtc	cttgaggtgc	ccctggagca	ccccacgctg	960
gagtggtttg	cagccctggg	cctgcgctgg	tacgccctcc	cggcagtgtc	caacatgctg	1020
ctggaaattg	ggggcctgga	gttccccgca	gcccccttca	gtggctggta	catgagcact	1080
gagatcggca	cgaggaacct	gtgtgaccct	caccgctaca	acatcctgga	ggatgtggct	1140
gtctgcatgg	acctggatac	ccggaccacc	tcgtccctgt	ggaaagacaa	ggcagcagtg	1200
gaaatcaacg	tggccgtgct	gcacagttac	cagctagcca	aagtcaccat	cgtggaccac	1260
cacgccgcca	cggcctcttt	catgaagcac	ctggagaatg	agcagaaggc	cagggggggc	1320
tgccctgcag	actgggcctg	gatcgtgccc	cccatctcgg	gcagcctcac	tcctgttttc	1380
catcaggaga	tggtcaacta	tttcctgtcc	ccggccttcc	gctaccagcc	agacccctgg	1440
aaggggagtg	ccgccaaggg	caccggcatc	accaggaaga	agacctttaa	agaagtggcc	1500
aacgccgtga	agateteege	ctcgctcatg	ggcacggtga	tggcgaagcg	agtgaaggcg	1560
acaatcctgt	atggctccga	gaccggccgg	gcccagagct	acgcacagca	gctggggaga	1620
ctcttccgga	aggcttttga	tccccgggtc	ctgtgtatgg	atgagtatga	cgtggtgtcc	1680
ctcgaacacg	agacgctggt	gctggtggta	accagcacat	ttgggaatgg	ggatcccccg	1740
gagaatggag	agagctttgc	agctgccctg	atggagatgt	ccggccccta	caacagctcc	1800
cctcggccgg	aacagcacaa	gagttataag	atccgcttca	acagcatctc	ctgctcagac	1860
ccactggtgt	cctcttggcg	gcggaagagg	aaggagtcca	gtaacacaga	cagtgcaggg	1920
gccctgggca	ccctcaggtt	ctgtgtgttc	gggctcggct	cccgggcata	ccccacttc	1980
tgcgcctttg	ctcgtgccgt	ggacacacgg	ctggaggaac	tgggcgggga	gcggctgctg	2040
cagctgggcc	agggcgacga	gctgtgcggc	caggaggagg	ccttccgagg	ctgggcccag	2100
gctgccttcc	aggccgcctg	tgagaccttc	tgtgtgggag	aggatgccaa	ggccgccgcc	2160
cgagacatct	tcagccccaa	acggagctgg	aagcgccaga	ggtaccggct	gagcgcccag	2220
gccgagggcc	tgcagttgct	gccaggtctg	atccacgtgc	acaggcggaa	gatgttccag	2280
gctacaatcc	gctcagtgga	aaacctgcaa	agcagcaagt	ccacgagggc	caccatcctg	2340
gtgcgcctgg	acaccggagg	ccaggagggg	ctgcagtacc	agccggggga	ccacataggt	2400
gtctgcccgc	ccaaccggcc	cggccttgtg	gaggcgctgc	tgagccgcgt	ggaggacccg	2460
ccggcgccca	ctgagcccgt	ggcagtagag	cagctggaga	agggcagccc	tggtggccct	2520
cccccggct	gggtgcggga	ccccggctg	ccccgtgca	cgctgcgcca	ggctctcacc	2580
ttcttcctgg	acatcacctc	cccacccagc	cctcagctct	tgcggctgct	cagcaccttg	2640
gcagaagagc	ccagggaaca	gcaggagctg	gaggccctca	gccaggatcc	ccgacgctac	2700
gaggagtgga	agtggttccg	ctgccccacg	ctgctggagg	tgctggagca	gttcccgtcg	2760

25195948 - 7 -

gtggcgctgc ctgccccact gctcctcacc cagctgcctc tgctccaqcc ccqqtactac 2820 tcagtcagct cggcacccag cacccaccca ggagagatcc acctcactqt agctqtqctq 2880 gcatacagga ctcaggatgg gctgggcccc ctgcactatg gagtctgctc cacgtggcta 2940 agccagctca agcccggaga ccctgtgccc tgcttcatcc gggggggctcc ctccttccqq 3000 ctgccacccg atcccagctt gccctgcatt ctggtgggtc caggcactgg cattgcccc 3060 ttccggggat tctggcagga gcggctgcat gacattgaga gcaaagggct gcagccact 3120 cccatgactt tggtgttcgg ctgccgatgc tcccaacttg accatctcta ccgcgacgag 3180 gtgcagaacg cccagcagcg cggggtgttt ggccgagtcc tcaccgcctt ctcccqqqaa 3240 cctgacaacc ccaagaccta cgtgcaggac atcctgagga cggagctggc tgcggaggtg 3300 caccgcgtgc tgtgcctcga gcggggccac atgtttgtct gcggcgatgt taccatqqca 3360 accaacgtcc tgcagaccgt gcagcgcatc ctggcgacgg agggcgacat ggagctggac 3420 gaggccggcg acgtcatcgg cgtgctgcgg gatcagcaac gctaccacga agacattttc 3480 gggctcacgc tgcgcaccca ggaggtgaca agccgcatac gcacccaqaq cttttccttq 3540 caggagegte agttgegggg egeagtgeee tgggegtteg acceteeegg eteagacace 3600 aacagcccct ga 3612

<210> 6 <211> 14

<212> PRT

<213> HUMAN

<400> 6

Glu Pro Pro Leu Ser Gln Glu Ala Phe Ala Leu Leu Lys Lys 1 5 10

<210> 7

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutagen

<400> 7

Glu Pro Pro Leu Ser Glu Gln Ala Phe Ala Leu Leu Lys Lys 1 5 10

25195948 - 8 -